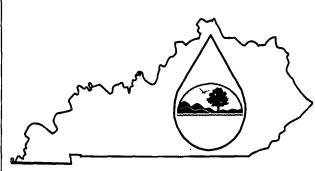
# **KPDES FORM 1**



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

2004 APR - 1 P 1: 01

# **PERMIT APPLICATION**

DIVISION OF WATER

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This is an application to: (check	A complete application consists of this form and one of the								
Apply for a new permit.	following:								
Apply for reissuance of ex	Form A, Form B,	Form (	C, For	m F, o	r Short	Form C	,		
Apply for a construction pe	, ,		,	•					
Modify an existing permit.	For additional in	ıforma	tion c	ontact	t:				
Give reason for modificati		<b>KPDES Branch</b>	(502)5	64-34	10				
		AGENCY					T		
I. FACILITY LOCATION AN	D CONTACT INFORMATION	USE				l		l	1 1
A. Name of business, municipality, comp General Motors Corporation	pany, etc. requesting permit				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
B. Facility Name and Location		C. Facility Own	ner/Mai	iling A	ddres	s			
Facility Location Name:		Owner Name:							
General Motors - Bowling Green Ass	ombly	General Motors C	Cornorati	ion					
Facility Location Address (i.e. street, roa		Mailing Street:	Joiporat	1011					
	-,,								
600 Corvette Drive Facility Location City, State, Zip Code:		Mailing City, State		de:					
Bowling Green, KY 42102		Bowling Green, K	V 42102						
Dowling Green, N1 42102		Telephone Number						<del></del>	
		270-745-8230							
II. FACILITY DESCRIPTION	1								
include mig and spot welce treatment plant and a pow The stormwater system re	of activities, products, etc: Automo ding, paint and general assembly werhouse that supplies the facilty eceives stormwater run-off from son the roof of the building, and	<ul> <li>The facility has</li> <li>with utilities.</li> <li>the property, con</li> </ul>	s supp idensa	ort op te wat	eration ter ( n	ons inc	luding a	a waste	l
B. Standard Industrial Classificat	tion (SIC) Code and Description								
Principal SIC Code &									
Description:	3711 - Motor Vehicles and Pas	senger Car Bod	ies		_			****	
Other SIC Codes:									
III. FACILITY LOCATION									
	vey 7 ½ minute quadrangle map for	the site (See instr	actions						
					f annl	icable)			
B. County where facility is locate Warren	City where facility is located (if applicable):  Bowling Green								
C. Body of water receiving disch	arge:								
On-site sink holes									
D. Facility Site Latitude (degrees	Facility Site Longitude (degrees, minutes, seconds): 37 degrees, 00 minutes, 35 seconds								
86 degrees, 21 minutes, 55 se	31 degrees, 00	minute	s, <u>35</u>	seco	nas				
E. Method used to obtain latitude	e & longitude (see instructions):	Topo map coordinates							
   F. Facility Dun and Bradstreet N	099769952								



**Bowling Green Plant** 

CERTIFIED MAIL
Return Receipt Requested

March 15, 2004

Mr. Doug Allgeier, KPDES Permit Writer Division of Water, KPDES Branch Department of Environmental Protection 14 Reilly Road Frankfort, KY 40601

Dear Mr. Allgeier,

Enclosed please find the renewal application for General Motors - Bowling Green Assembly's Kentucky Pollution Discharge Elimination System (KPDES) stormwater discharge permit - KPDES Permit No. KY0079545. Included with KPDES Forms 1 and F, and the required attachments is check no. 002651683 in the amount of \$200 to cover the application filing fee.

If you have any questions or require further information, please contact me at 270-745-8230.

Sincerely

Olin Desonier

Senior Environmental Engineer

enc

IV. OWNER/OPERATOR INFORMA. Type of Ownership:	IATION					
Publicly Owned Privately		Both Public and Pr	ivate Owned  Federally owned			
B. Operator Contact Information (See Name of Treatment Plant Operator:	instructions)	Telephone Number:				
·						
Operator Mailing Address (Street):						
Operator Mailing Address (City, State, Zip Code	e):					
Is the operator also the owner?			? If yes, list certification class and number below.			
Yes No Certification Class:		Yes No Certification Number:	<u> </u>			
V. EXISTING ENVIRONMENTAL Current NPDES Number:	Issue Date of Current Permi		Expiration Date of Current Permit:			
	İ	••				
KY0079545 Number of Times Permit Reissued:	Date of Original Permit Issu	ance:	8/31/2004 Sludge Disposal Permit Number:			
			N/A			
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit N	umber(s):				
N/A	N/A					
C. Which of the following additional e	nvironmental permit/registrati	on categories will a	also apply to this facility?  PERMIT NEEDED WITH			
CATEGORY	EXISTING PERM	AIT WITH NO.	PLANNED APPLICATION DATE			
Air Emission Source	Air Quality Permits F-97-022, O-85-02	· · · · · · · · · · · · · · · · · · ·				
Solid or Special Waste	N/A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Hazardous Waste - Registration or Per	mit KYD000622993					
NA DICONADCE MONITODING	DEDODTS (DMD-)					
	to submit DMRs to the Divisin serves to specifically identify		regular schedule (as defined by the KPDES ffice or individual you designate as responsible			
A. Name of department, office or offic	ial submitting DMRs:	Environmental Er	ngineering			
B. Address where DMR forms are to b	e sent. (Complete only if addr	ess is different fron	n mailing address in Section I.)			
DMR Mailing Name:	General Motors - Bowling Green Assembly					
DMR Mailing Street:	600 Corvette Drive	600 Corvette Drive				
DMR Mailing City, State, Zip Code:	Bowling Green, KY 42	Bowling Green, KY 42102				
DMR Official Telephone Number:	270-745-8230					
	270-743-8230					

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KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

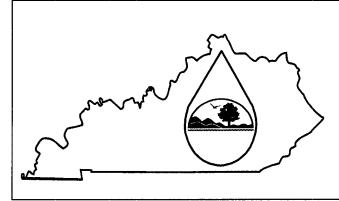
Facility Fee Category:	Filing Fee Enclosed:
Non-Process Industry	\$200

### VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Wil Cooksey, Jr Plant Manager	270-745-8200
SIGNATURE (M) ( Plane)	DATE:
WW COOLING ?	3.29.04

# KPDES FORM F



# KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1. /:
For additional information, Contact KPDES Branch, (502) 564-3416.

I. OUTFALL LOCATION AGENCY (SEE

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and name the receiving water.

A. Outfall Number		B. Latitu	de		C. Longitu	ude EA	D. Receiving Water (name)
001	86	21'	40"	37	00'	30"	Sink Hole
002	86	22'	02"	37	00'	25"	Sink Hole
003	86	21'	45"	37	00'	45"	Sink Hole
004	86	21'	58"	37	00'	50"	Sink Hole
			T T				

#### II. IMPROVEMENTS

A. Are you now required by any federal, state, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions,	entification of Conditions, 2. Affected Outfalls		3. Brief Description	4. Final Co	4. Final Compliance Date		
Agreements, Etc.	No.	Source of Discharge	of Project	a. req.	b. proj.		
N/A							
		······					

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

#### III. SITE DRAINAGE MAP

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each know past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage of disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

#### IV. NARRATIVE DESCRIPTION OF POLLUTANT SOURCES

Wil Cooksey, Jr., Plant Manger

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall	Area of Impervious	Total Area Drained	Outfall	Area of Impervious	Total Area Drained
Number	Surface (provide units)	(provide units)	Number	Surface (provide units)	(provide units)
001	360,000 sq. feet	1,720,000 sq. feet			
002	582,000 sq. feet	912,000 sq. feet			
003	90,000 sq. feet	420,000 sq. feet			
004	500,000 sq. feet	2,400,000 sq. feet			
			3		
			٠		

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

All chemical processes are performed inside buildings. Most chemicals are stored and used inside the buildings other than the bulk fluids that are stored in the bulk fluids tank farm. The fluids are stored in steel tanks that are in a diked concrete containment area. Materials for use in the plant are unloaded by backing trucks up to unloading docks located in the side of the building and materials are unloaded directly into the building. The facility has a waste 90-day accumulation pad that is covered and has a diked concrete pad. Scrap and trash gondolas, virgin steel (angle iron, I beams, channel iron, etc.) for building projects, scrap metal for recycling, empty material storage racks, automobile body truck parts, paint test bodies, and vehicles are stored outside. None of these items represent a significant risk for stormwater contamination.

The facility has a Stormwater Pollution Prevention Plan, Spill Prevention and Countermeasure Plan, Emergency Response Plan, and a Hazardous Waste Management Facility Contingency Plan. The purpose of these plans is to prevent and mitigate the spills and contamination. The facility also has a Hazardous Material Control Committee that evaluates all chemical materials for health and safety effects, environmental impact, disposal and safe use and storage. Security personnel make routine rounds of the facility during off-shifts, weekends, and holidays to check for spills or leaks. Security personnel are trained in spill response.

Fertilizers and herbicides are periodically applied to the facility grounds by Chem Lawn of Bowling Green.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table F-1
rumoci	See Attachment	14010 1 1

V. NON-STORM WATER DISCHARGES		
A. I certify under penalty of law that the outfall(s) covered	ed by this application have been te	sted or evaluated for the presence of non-
storm water discharges, and that all non-storm water disch	arges from these outfall(s) are iden	ntified in either an accompanying Form C
or Form SC application for the outfall.		
Name and Official Title (type or print)  Signature		Date Signed
$O(V) \mid \forall \text{control} \ O(V) \mid$	ON MADE	3.29.04
		10.0.

B. Provide a description of the a test.	method used, the date of any testing	ng, and the onsite drains	age points th	at were directly observed during
All samples taken from the personnel. The samples are	four stormwater retention po e taken as grabs from the rete es are then packaged by Ensa ameters.	ention ponds at the	discharge	point prior to mixing with the
				· · · · · · · · · · · · · · · · · · ·
VI. SIGNIFICANT LEAKS OR SPIL	LS arding the history of significant lear	aks or spills of toxic or	hazardoue n	allutants at the facility in the last
	imate date and location of the spil			
	nt leaks or spills of toxic or haza			
	fore proceeding. Complete one set 3-3 are included on separate pages.		all. Annotat	e the outfall number in the space
	covered by analysis - is any toxic		ble F-2, F-3	, or F-4, a substance which you
currently use or manufacture as a  Yes (list all such pollutant	nn intermediate or final product or (s below)	by product. go to Section IX)		
1 es (list all such poliulant	5 DEIDW)	go to section (x)		
		<u> </u>		<u> </u>
VIII. BIOLOGICAL TOXICITY TES				
	reason to believe that any biologi		ronic toxicit	y has been made on any of your
discharges or on a receiving water	er in relation to your discharge wit	nin the last 3 years?		
Yes (list all such results belo	ow) 🛛 No (	go to Section IX)	·	
W. CONTRACT ANALYCIC INFOR	MATION			
IX. CONTRACT ANALYSIS INFOR	d in item VII performed by a contr	ract laboratory or consu	lting firm?	
Yes (list the name, address and	d telephone number of, and pollutants anal	yzed by each such laboratory	or firm below;	use additional sheets if necessary).
☐ No (go to Section IX)				
A. Name	B. Address	C. Area Code & Pho	one No.	D. Pollutants Analyzed
Environmental Science Corp.	12065 Lebannon Road	615-758-5858		Oil & Grease - Ponds 1, 2,3,4
	Mt. Juliet, TN 37122	j		Hardness – Ponds 1, 2, 3 TSS – Ponds 1,2,3,4
				PH -Ponds 1,2,3,4
				Copper – Ponds 1,2,3 Lead – Ponds 1, 2,3
				Zinc - Ponds 1,2,3
				Benzene – Pond 4 Toluene- Pond 4
				TOC - Pond 4
X. CERTIFICATION	1 1 1 1 1 1		1:4	
I certify under penalty of law the	at this document and all attachme that qualified personnel properly	nts were prepared under	er my direct	submitted Based on my inquiry
of the person or persons who ma	anage the system or those persons	directly responsible for	or gathering	the information, the information
submitted is, to the best of my k	nowledge and belief, true, accura-	te, and complete. I am	aware that t	here are significant penalties for
	luding the possibility of fine and i	mprisonment for know	ing violation	ns. This certification is made on
behalf of the General Motors Con			ADEACC	DE AND PHONE NO.
NAME & OFFICIAL TITLE (	type or print)		AREACC	DE AND PHONE NO.
Wil Cooksey, Jr. Plant Man	ger		270-745-8	3200
SIGNATURE	^ \		DATE SIG	GNED
0.00	Kan		2.79	9.04
000	", ~ A		3,6	1.01

**OUTFALL NO: 001** 

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Sample collected on 3/5/04 - Analytical attached.

	Maximum Values (include units)			e Values e units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.0 ppm	N/A				
Biological Oxygen Demand BOD <sub>5</sub>	<5.0 ppm					
Chemical Oxygen Demand (COD)	<20 ppm					
Total Suspended Solids (TSS)	5.6 ppm					
Total Kjeldahl Nitrogen	1.0 ppm					
Nitrate plus Nitrite Nitrogen	0.30 ppm					
Total Phosphorus	<0.10 ppm					
рН	7.9	Maximum	Minimum	Maximum	li d C Ti A MAR	

requirements. Samp	Maximu (includ		Average (includ	e Values e units)		_
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.0	N/A				
Total Suspended Solids (TSS)	5.6 ppm					
Copper	0.013 ppm					
Lead	<0.0050 ppm				<u> </u>	
Zinc	0.058 ppm					
рН	7.9					
Hardness	38 ppm					

Pollutant and CAS Number (if available)  WA  Taken During 20 Minute	g 1 <sup>st</sup> Flow-weighted	Grab Sample Taken During 1st 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
N/A					
					- V
				1	
				<del></del>	
ł					
Part D - Provide data for the storm event	(s) which resulted in the maxim	mum values for the flow-we	eighted composite sam	nple.	
1. 2. Date of Duration of	3. Total rainfall	4. Number of hours	5. Maximum flow	Total	6. flow from rain
Storm Event Storm Even	t during storm	between beginning of	rate during	ever	nt (gallons or
(in minutes	event (in inches)	storm measured and end of previous	rain event (gal/min or	sp	ecify units)
		measurable rain event	specify units)		
Not applicable since samples are					
from the retention		ļ			
pond.					
7. Provide a description of the method of	of flow measurement or estimate	te.			

OUTFALL NO: 002

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Sample collected on 3/5/04 - Analytical attached.

		m Values e units)		Average Values (include units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.0 ppm	N/A				
Biological Oxygen Demand BOD₅	<5.0 ppm					
Chemical Oxygen Demand (COD)	<20 ppm					
Total Suspended Solids (TSS)	5.8 ppm					
Total Kjeldahl Nitrogen	1.1 ppm					
Nitrate plus Nitrite Nitrogen	0.45 ppm					
Total Phosphorus	<0.10					
рН	Minimum	Maximum	Minimum	Maximum		

requirements. Gamp		m Values	Average	e Values	T	
		(include units)		e units)	-  <sub>N</sub>	Sources of
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Pollutants
Oil and Grease	<1.0 ppm	N/A				
Total Suspended Solids (TSS)	5.8 ppm					
Copper	0.013 ppm					***
Lead	<0.0050 ppm					
Zinc	0.059 ppm					
рН	8.2					
Hardness	47 ppm					

	Maximum Values (include units)		Average (include	Values units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
N/A						
,						
			1		<del>                                     </del>	
						**
						······
			num values for the flow-we		ple.	
1. Date of	2. Duration of	3. Total rainfall	4. Number of hours	5. Maximum flow	Total fl	6. low from rain
Storm Event	Storm Event	during storm	between beginning of	rate during	event	(gallons or
	(in minutes)	event (in inches)	storm measured and end of previous	rain event (gal/min or	spec	cify units)
			measurable rain event	specify units)		
Not applicable since samples are						
from the retention						
oond.						
7 Dunaido e desertar	on of the method of f	manaurament or actions				
. Provide a description	on of the method of flow	measurement of estimat	ν.			

OUTFALL NO: 003

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Sample collected on 3/5/04 - Analytical attached.

	Maximum Values (include units)		1 -	e Values le units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	2.6 ppm	N/A				
Biological Oxygen Demand BOD₅	<5.0 ppm					
Chemical Oxygen Demand (COD)	<20.0 ppm					
Total Suspended Solids (TSS)	12.0 ppm					
Total Kjeldahl Nitrogen	1.4 ppm					, ,
Nitrate plus Nitrite Nitrogen	0.28 ppm					
Total Phosphorus	<0.10 ppm					
pH	Minimum	Maximum	Minimum	Maximum		

	Maximu (includ	Maximum Values (include units)		e Values le units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	2.6 ppm	N/A		,		
Total Suspended Solids (TSS)	12.0 ppm					
Copper	<0.010 ppm					
Lead	<0.0050 ppm					
Zinc	0.096 ppm					
рН	7.7					
Hardness	58 ppm					

CAS Number (If available)  A Discording 1st		Maximum Values (include units)		Average (include	Values units)			
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)  Storm Event (in inches)  Number of hours between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)	CAS Number	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1st 20 Minutes	Flow-weighted Composite		Sources of Pollutants	
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are rom the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm measured and end of previous measurable rain event (gal/min or specify units)  Storm Event (gal/min or specify units)	N/A							
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)  Storm Event (in inches)  Number of hours between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)		-						
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)								
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)								
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)								
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)								
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1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)					·			
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)  Storm Event (in inches)  Number of hours between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)								
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  Not applicable since samples are from the retention  1. Date of Storm Event (in minutes)  2. Duration of Storm Event (in inches)  Storm Event (in inches)  Total rainfall during storm between beginning of storm measured and end of previous measurable rain event (gal/min or specify units)  Maximum flow rate during rain event (gal/min or specify units)						<del>                                     </del>		
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Date of Storm Event Storm Event (in minutes)  Duration of Storm Event (in minutes)  Duration of Storm Event (in inches)  Storm Event (in inches)  Duration of Storm Event (during storm event (in inches)  Event (in inches)  Storm Event (in inches)  Event (in inches)  Storm measured and end of previous (gal/min or measurable rain event specify units)  Total flow from rain event (gallons or specify units)								
1. Date of Storm Event (in minutes)  Storm Event (in minutes)  1. Date of Storm Event (in minutes)  Storm Event (in minutes)  A control of Storm Event (in minutes)  Storm Event (in minutes)  Storm Event (in inches)  Storm measured and end of previous measurable rain event  Storm measured and end of previous measurable rain event  Storm Event (gal/min or specify units)  Not applicable since samples are from the retention								
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Storm Event (in minutes)  Storm Event (in minutes)  Storm Event (in minutes)  Storm Event (in inches)  Storm Event (in inches)  Storm Event (in inches)  Storm measured and end of previous measurable rain event (gal/min or specify units)  Not applicable since samples are from the retention  Storm Event (in inches)  Storm Event (in inches)  Storm measured and end of previous measurable rain event (gal/min or specify units)	1.	2.	3.	4.	5.			
(in minutes) event (in inches) storm measured and end of previous measurable rain event (gal/min or specify units)  Not applicable since samples are from the retention storm measurable rain event specify units)								
Mot applicable since samples are from the retention	Storin Event			storm measured and	rain event			
Not applicable since samples are from the retention								
from the retention	Not applicable				2,555.3, 4			
	from the retention							
7. Provide a description of the method of flow measurement or estimate.	7. Provide a descriptio	n of the method of flow	measurement or estimat	е.				

**OUTFALL NO: 004** 

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Sample collected on 3/5/04 - Analytical attached.

1	Maximum Values (include units)			e Values le units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<1.0 ppm	N/A				
Biological Oxygen Demand BOD <sub>5</sub>	<5.0 ppm					
Chemical Oxygen Demand (COD)	<20 ppm					
Total Suspended Solids (TSS)	3.5 ppm					
Total Kjeldahl Nitrogen	1.3 ppm					
Nitrate plus Nitrite Nitrogen	0.53 ppm					
Total Phosphorus	<0.10					
pН	7.2	Maximum	Minimum	Maximum		

requirements. Samp	quirements. Sample collected on 3/5/04 – Analytical attached.  Maximum Values Average Value				alues			
		le units)	(includ	e units)	_			
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants		
Oil and Grease	<1.0 ppm	N/A						
Total Suspended Solids (TSS)	3.5 ppm							
Benzene	<0.00050 ppm							
Toluene	<0.0050 ppm							
Total Organic Carbon (TOC)	2.0 ppm							
рН	7.2					- 100 mm		

	Maximum Values (include units)		Average (include	Values units)	_		
Pollutant and CAS Number (if available)	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 <sup>st</sup> 20 Minutes	Flow-weighted Composite	Number of Storm Events Sampled	Sources of Pollutants	
N/A							
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				*****			
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			num values for the flow-w	eighted composite sam 5.	ple.	6.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Maximum flow rate during rain event (gal/min or specify units)	even	low from rain t (gallons or cify units)	
Not applicable since samples are from the retention pond.			measurable fam event	specify units)			
7. Provide a descripti	on of the method of flow	measurement or estimate	e				

# Form F Section IV Item C

### Information common to all four outfalls:

The facility has implemented the following plans, which address various management controls that are in place, which minimize contamination of stormwater from the facility:

- Spill Prevention Control and Countermeasures Plan
- Emergency Response Plan
- Hazardous Waste Management Facility Contingency Plan
- Groundwater Protection Plan

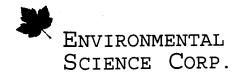
Plant Security personnel make rounds of the facility at a minimum twice per shift and up to eight times per shift during off shifts, weekends, and downtimes. The security personnel are trained in Hazard Communications (29 CFR 1910.1200), and are trained at the Awareness Level for HAZWOPER (29 CFR 1910.120). All chemical processes such as welding, painting, phosphating, sealer and adhesive operations, fluid fill operations (engine oil, transmission fluid, antifreeze, rear axle fluid, brake fluid, power steering fluid, windshield washer fluid, and unleaded gasoline) are conducted inside the building, thus there is no opportunity for any stormwater contamination from these operations. All non-bulk chemicals are unloaded and stored inside the building. Bulk chemical materials are unloaded in contained areas and stored in the process fluids tank farm area, which is diked, contained, and concreted.

## Outfalls 1, 2, and 3

The treatment of the stormwater that is discharged at the three outfalls consists of settling (1-U) in the retention ponds. Outfalls 1,2,3 are concrete lined retention ponds with the discharge valves that normally remain closed. The retention ponds are visual inspected and samples are collected before the stormwater is discharged by opening the discharge valve. After the discharge is complete the valve is closed. If by the visual inspection the stormwater is questionable the pond will not be discharged until the analytical results confirm that all discharge limitations have been met.

#### Outfall 4

Outfall 4 receives water from the containment area for the process fluids tank farm. This containment area has a valve on the discharge, which remains normally closed. The water in the containment area is visually inspected and samples are collected before the stormwater is discharged by opening the discharge valve. After the discharge is complete the valve is closed. If by the visual inspection the stormwater is questionable the containment area will not be discharged until the analytical results confirm that all discharge limitations have been met.



Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # :

Project # :

Site ID : CORVETTE PLANT

L146672-01

Date Received :

March 05, 2004

Description

Storm Ponds

Sample ID

POND 001 24 IN

Beth May

Collected By : Collection Date :

03/05/04 12:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.	
BOD	BDL	5.0	mg/l	SM5210B	03/06/04	1	
COD	BDL	20.	mg/l	410.4	03/08/04	1	
Nitrate-Nitrite	0.30	0.10	mg/l	353.2	03/11/04	1	
Phosphorus, Total	BDL	0.10	mg/l	365.2	03/10/04	1	
Kjeldahl Nitrogen, TKN	1.0	0.50	mg/l	351.2	03/11/04	1	

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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Reported: 03/12/04 12:43 Printed: 03/12/04 12:44

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # :

L146672-02

Site ID : CORVETTE PLANT

Project # :

Date Received : Description

March

Storm Ponds

Sample ID

POND 002 8 IN

05, 2004

Collected By

Beth May

Collection Date :

03/05/04 12:42

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	BDL	5.0	mg/l	SM5210B	03/06/04	1
COD	BDL	20.	mg/l	410.4	03/08/04	1
Nitrate-Nitrite	0.45	0.10	mg/l	353.2	03/11/04	1
Phosphorus, Total	BDL	0.10	mg/l	365.2	03/10/04	1
Kjeldahl Nitrogen, TKN	1.1	0.50	mg/l	351.2	03/11/04	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233 Note:

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # :

Date Received :

March 05, 2004

Description

Storm Ponds

Sample ID

POND 003 11 IN

Collected By Collection Date : Beth May

03/05/04 13:12

Site ID : CORVETTE PLANT

L146672-03

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	BDL	5.0	mg/l	SM5210B	03/06/04	1
COD	BDL	20.	mg/l	410.4	03/08/04	1
Nitrate-Nitrite	0.28	0.10	mg/l	353.2	03/11/04	1
Phosphorus, Total	BDL	0.10	mg/l	365.2	03/10/04	1
Kjeldahl Nitrogen, TKN	1.4	0.50	mg/l	351.2	03/11/04	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233 Note:

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Reported: 03/12/04 12:43 Printed: 03/12/04 12:44

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # : L146672-04

Date Received : Description

05, 2004 March

POND 004 2 IN/1IN

Site ID : CORVETTE PLANT

Sample ID

Storm Ponds

Project # :

Collected By Beth May Collection Date : 03/05/04 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
BOD	BDL	5.0	mg/l	SM5210B	03/06/04	1
COD	BDL	20.	mg/l	410.4	03/08/04	1
Nitrate-Nitrite	0.53	0.10	mg/l	353.2	03/11/04	1
Phosphorus, Total	BDL	0.10	mg/l	365.2	03/10/04	1
Kjeldahl Nitrogen, TKN	1.3	0.50	mg/l	351.2	03/11/04	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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Reported: 03/12/04 12:43 Printed: 03/12/04 12:44

## Attachment A List of Analytes with QC Qualifiers

Sample #	Analyte	• • •	Qualifier
L146672-01 L146672-02 L146672-03	BOD BOD BOD		B1J4 B1J4 B1J4
L146672-04	BOD		B1J4



Tax I.D. 62-0814289

Est. 1970

Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006

Bowling Green, KY 42102-9006

Quality Assurance Report Level II

L146672

March 12, 2004

Analyte	Laboratory Blank Result Units Date Analyzed									T	Batch			
												·		
BOD BOD	0.4				g/l g/l			06/04 06/04				WG147416 WG147416		
COD	< 20	4,799		m	g/l		03/0	08/04	09	:00	V	WG147595		
Phosphorus, Total	< .1	t sanggara		m	g/l		03/:	10/04	15	:31	V	WG147638		an its air it danas it is
Kjeldahl Nitrogen, TKN	< .5	4 (10) (1)		m	g/l		03/1	11/04	17	:08	V	NG147931		Oleh rotte o Kreisselen
Nitrate-Nitrite	< .1			m	g/l	e eng	03/1	11/04	11	:27	V	VG148035	u j	
Analyte	Units	1	D Resu	upli lt	cate Dupl		:e	RPD		Limit	<u>.</u>	Ref Sar	np	Batch
BOD	mg/l	29:	3		300.			2.36		10	435	L146678	3-04	WG147416
Phosphorus, Total	mg/l		6.05		6.	00		0.90	6	20		L146448	3-01	WG147638
Kjeldahl Nitrogen, TKN	mg/l	1.	4.7		14.	0	AH FR	4.90		20		L146562	2-01	WG147931
Nitrate-Nitrite	mg/l	S. T.	0.37	6	0.	380		0.94	4	20		L146669	-01	WG148035
Analyte	La Units			y Coi wn V			mple sult		5	Rec	;	Limit	Ва	tch
BOD BOD	mg/1 mg/1		198 198			234. 222.	5518 (1)	- 4 (A) (B) (B) (B)		118. 112.		85-115 85-115		147416 147416
COD COD	mg/l mg/l	: Mulicenso 848-14538	392 392			120. 120.				L07. L07.		85-115 85-115		147595 147595
Phosphorus, Total	mg/1		1	A.S.C.		1.	04			L <b>04</b> .		85-115	WG	147638
Kjeldahl Nitrogen, TKN	mg/1	VMA JOSE	5.0	9	. sense suu	5.	48		1	.80		85-115	WG	147931
Nitrate-Nitrite	mg/l	Signal.	5			4.	85			97.0	)	85-115	WG	148035
Analyte	aborat Units			trol Res I				icat RPD		mit		Ref Samp	В	atch
COD COD	mg/l mg/l		00.		20.			.88	20 20			WG147595 WG147595		
Analyte	Units	MS	Ma Re	trix s F	Spikef F		ΤV	*	Rec	Lim	<u>it</u>	Ref Sa	mp	Batch
COD : THE TABLE TO SEE THE CODE OF THE COD	mg/l mg/l	390 390		e teriji Ala	0.00		400 400			80- 80-				WG147595 WG147595
Phosphorus, Total	mg/l	. 2	2.67		0.37	70	2.5	uh e t	92.0	80-	120	L14666	9-02	WG14763J
Kjeldahl Nitrogen, TKN	mg/l	11	5		1.10	)	10	1	04.	80-	120	L14582	7-01	WG147931
Nitrate-Nitrite	mg/l	10	).1		0.13	0	10		99.6	80-	120	L14684	8-03	WG148035
Analyte	Units	Matr MSI	ix S	Spike Re	Dur f Re	lic		PD	Lim	it %	Rec	Ref S	amp	Batch
	mg/1 mg/1	380 380	).	39	0.			60	20 20	9	5.0 5.0	L1466	69-01	WG147595 WG147595



Tax I.D. 62-0814289

Est. 1970

Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006 Quality Assurance Report

Level II

Bowling Green, KY 42102-9006

L146672

March 12, 2004

Analyte	Units	Matrix Sp MSD Res	ike Duplica Ref Res	ite RPD	Limit	%Rec	Ref Samp	Batch
Phosphorus, Total	mg/l	2.59	2.67	3.19	20	88.7	L146669-02	WG147638
Kjeldahl Nitrogen, TKN Nitrate-Nitrite	mg/l	12.0 10.0	11.5 10.1	3.63 0.530		109. 99.0	L145827-01 L146848-03	

Batch number /Run number / Sample number cross reference

WG147595: R189221: L146672-01 02 03 04 WG147638: R189425: L146672-01 02 03 04 WG148035: R189487: L146672-01 02 03 04 WG147931: R189564: L146672-01 02 03 04 WG147416: R189628: L146672-01 02 03 04

<sup>\*</sup> See Attachment B of standard report for list of qualifiers.
\* Calculations are performed prior to rounding of reported values .



Tax I.D. 62-0814289

Est. 1970

Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006

Bowling Green, KY 42102-9006

90006 Quality Assurance Report Level II

L146672

March 12, 2004

ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Religious de Byrus de	Relinquished by Standing	Relinquished by: (Signature)	Remarks:	*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other						POND 004	POND 003	POND 002	POND 001	Sample ID	Packed on Ice N Y		From strains		Collected by (print):		Phone: (270) 745-8230	Project Description: Storm Ponds	Mr. Olin Desonier		0	Bowling Green.KY 42102-9006		General Motors, Bowling Green	
3/5/04	Date:	8/5/04		V - WasteWater DW -					•	6	6	6	9	Comp/Grab	Two Day	Next Day	Same Day	Rush? (Lab	Site/Facility ID#:  CORVETTE PLANT		Client Project #:					). Box 90006 02-9006		wling Gree	
17:30	Time:	Time: 15.31		Drinking Wate						ww	ww	ww	ww	Matrix*	-	:		( Lab MUST Be Notified )	PLANT				1133	n a	<del>. , -                                  </del>				Alterr
Received (	Received by	7 Receive		er OT - Other						2"/1"	= "	« "	" 4°	Depth			.200%	tified)	P.O.#:	WMI	Lab Project #	City/State Collected						Anomato Smill Burginador.	ofni onillid ater
for lab by: (Signatu	d by: (S., 1)	by: (Signatur								3.504	3.5-04	3504	354	Date	1,	Email? No		Date Results Needed		WMIBG-STORMPONDS	ect #	BG, KY	olin.h.desonier@gm.com					ā G	rmation:
nature			-							1330	13/2	1242	1355	Time	Yes	X Yes		Needed		MPONDS			vgm.com						
	/									2 X	2	2 <b>X</b>	2 <b>X</b>	XX1:2165	) S. 2	iis o	1111	DE	NoP										
							1.18			×			×	F/2001 (F/A) (F		32.77	6 200	21.000		*	N 5	00ml	HD	PE-	Add	H2SC	)4		Analys
Date:	W <sub>⊒</sub>	Sa																											is/Conta
6-04	Tempo 3,10	Samples returned via:																											alysis/Container/Preservative
Date: 04 Time: 729	Bottles Reseived:	Ivia: ⊔ UPS urier □	Flow	pH																									ative
pH Checked: 人之	ved:	Condition:	Other	Temp	以資本	2020	***	_ <i>D</i> _ 88		<b>'</b> 04	25	-22	L146672-01	Remarks/Contaminant	Shipped Via: FedEX Ground CC	Cooler #:	•	CoCode: WMIBG		FAX (615	Phone (800) 767-5859	Mt. Juliet, TN 37122	12065 I ebanon Boad	CCIENCI	ENVIRO	Prepared by:		Page _	
NCF:		(lab use only)					•							Sample # (lab only)	Ground C		168/P105463	(lab use only)		FAX (615) 758-5859	767-5859	N 37122	on Bood		ENVIRONMENTAL			Page of	the of Cambada

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # : L146673-01

Date Received : Description

March 05, 2004

Site ID : CORVETTE PLANT

Sample ID

Storm Ponds

Project # :

POND 001 24 IN

Collected By Collection Date :

Beth May 03/05/04 12:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH (On Site)	7.9		su			
Hardness	38.	30.	mg/l	130.1	03/07/04	1
Oil & Grease	BDL	1.0	mg/l	413.1	03/11/04	1
Suspended Solids	5.6	1.0	mg/l	160.2	03/09/04	1
Copper Lead Zinc	0.013 BDL 0.058	0.010 0.0050 0.030	mg/l mg/l mg/l	200.7 200.7 200.7	03/07/04 03/07/04 03/07/04	1 1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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Reported: 03/12/04 09:53 Printed: 03/12/04 09:54



Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

ESC Sample # : L146673-02

Site ID : CORVETTE PLANT

Project # :

Date Received : Description

March 05, 2004

Storm Ponds

Sample ID

POND 002 8 IN

Collected By

Beth May

Collection Date :

03/05/04 12:42

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH (On Site)	8.2		su			
Hardness	47.	30.	mg/l	130.1	03/07/04	1
Oil & Grease	BDL	1.0	mg/l	413.1	03/11/04	1
Suspended Solids	5.8	1.0	mg/l	160.2	03/09/04	1
Copper Lead Zinc	0.013 BDL 0.059	0.010 0.0050 0.030	mg/l mg/l mg/l	200.7 200.7 200.7	03/07/04 03/07/04 03/07/04	1 1 1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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ESC Representative



Tax I.D. 62-0814289

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REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

05, 2004

ESC Sample # : L146673-03

Date Received : Description

March Storm Ponds

Site ID : CORVETTE PLANT

Sample ID

POND 003 11 IN

Project # :

Collected By

Beth May

Collection Date:

03/05/04 13:12

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH (On Site)	7.7		su			
Hardness	58.	30.	mg/l	130.1	03/07/04	1
Oil & Grease	2.6	1.0	mg/l	413.1	03/11/04	1
Suspended Solids	12.	1.0	mg/l	160.2	03/09/04	1
Copper Lead Zinc	BDL BDL 0.096	0.010 0.0050 0.030	mg/l mg/l mg/l	200.7 200.7 200.7	03/07/04 03/07/04 03/07/04	1 1 1

ESC Representative

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit(EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

Mr. Olin Desonier General Motors, Bowling Green 600 Corvette Drive, P.O. Box 90006 Bowling Green, KY 42102-9006 March 12, 2004

Project # :

ESC Sample # : L146673-04

Date Received : 05, 2004 March Description Storm Ponds

Site ID : CORVETTE PLANT POND 004 2 IN/1 IN Sample ID

Collected By Beth May

Collection Date : 03/05/04 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH (On Site)	7.2		su			
Oil & Grease	BDL	1.0	mg/l	413.1	03/11/04	1
TOC (Total Organic Carbon)	2.0	1.0	mg/1	415.1	03/08/04	1
Suspended Solids	3.5	1.0	mg/l	160.2	03/10/04	1
Benzene Toluene Surrogate Recovery (70-130)	BDL BDL	0.00050 0.0050	mg/l mg/l	602 602	03/09/04 03/09/04	1
a,a,a-Trifluorotoluene	91.		% Rec.	602	03/09/04	1

BDL - Below Detection Limit

Det. Limit - Estimated Quantitation Limit (EQL)

Laboratory Certification Numbers:

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01

KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233

The reported analytical results relate only to the sample submitted.

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Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006

Bowling Green, KY 42102-9006

Quality Assurance Report Level II

L146673

March 12, 2004

Analyte	Result		tory Blan Units	k Date Anal	yzed	Batch	
TOC (Total Organic Carbon)	< 1		mg/1	03/08/04		WG147226	7. Lastus
Hardness	< 30		mg/l	03/07/04	08:25	WG147420	
				03/07/04			
Copper Lead	< .01 < .005		mg/1 mg/1	03/07/04		WG147424 WG147424	
Zinc	< .03		mg/l	03/07/04	21:38	WG147424	
Suspended Solids	< 1		mg/l	03/09/04	10:07	WG147553	
Benzene	< .000		mg/l	03/09/04 03/09/04		WG147586 WG147586	
Toluene	< .005		mg/l				
Suspended Solids	< 1		mg/l	03/10/04	07:19	WG147628	
Oil & Grease	< 1		mg/l	03/11/04	20:19	WG148046	
Oil & Grease	< 1		mg/l	03/11/04	22:17	WG148051	
Analyte	Units	Dup: Result	licate Duplica	te RPD	Limit	Ref Samp	Batch
TOC (Total Organic Carbon)		484.	480.	0.809		L146514-0	
Hardness	mg/l	296.	240.	21.0	20	L146128-0	2 WG147420
Suspended Solids	mg/l	28.7	27.0	5.99	20	L146533-0	
Suspended Solids	mg/l	406.	380.	6.62	20	L146560-0	3 WG147553
Suspended Solids Suspended Solids	mg/l mg/l	10.5 63.0	11.0 69.0	4.65 9.09	20 20	L146696-0 L146789-0	
Analyte	Lab Units	oratory ( _Known	Control Sa Val Re	ample esult	% Rec	Limit	Batch
TOC (Total Organic Carbon)	mg/1	4	4	.50	113.	85-115	WG147226
Hardness	mg/l	0	277	• •	0.00	85-115	WG147420
Copper	mg/l	1 Piles	0	.990	99.0	85-115	WG147424
Lead	mg/l	1 1		.990 .970	99.0 97.0		WG147424 WG147424
Zinc	mg/1		and the second second				WG147553
Suspended Solids	mg/l	88.3	88		99.7	85-115	WG14/553
Benzene Toluene	mg/l mg/l	.0292 .1624		.0318 .148	109. 91.1		WG147586 WG147586
Suspended Solids	mg/l	88.3	90	. 0	102.	85-115	WG147628
Oil & Grease	mg/1	60	59	. 0	98.3	85-115	WG148046
Oil & Grease	mg/l	60	57	. 0	95.0	85-115	WG148051
Para Justina	Laborato Units	ry Contro LCSD Res	Sample Ref Res	Duplicate RPD	Limit	Ref Samp	Batch
Analyte							
Analyte TOC (Total Organic Carbon)	mg/1	4.30	4.50	4.55	20	WG147226-2	WG147226



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Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006

Quality Assurance Report Level II

Bowling Green, KY 42102-9006

L146673

March 12, 2004

Lead	mg/l	0.990	0.990	0.00	20	R189081-3	WG147424
Analyte	Laborato Units	ory Contro LCSD Res		Duplica RPD		Ref Samp	Batch
Zinc	mg/l	0.980	0.970	1.03	20	R189081-3	WG147424
Benzene Toluene	mg/l mg/l	0.0331 0.153	L 0.0318 0.148		15 14	R189339-3 R189339-3	WG147586 WG147586
Oil & Grease	mg/l	58.0	59.0	1.71	20	R189574-3	WG148046
Oil & Grease	mg/l	55.0	57.0	3.57	20	R189572-3	WG148051
Analyte	Units	Matri MS Res	x Spike Ref Res	TV	% Rec Limit	Ref Samp	Batch
TOC (Total Organic Carbon)	mg/l	21.0	1.70	20	96.5 80-12	20 L146651	-01 WG147226
Copper Lead Zinc	mg/l mg/l mg/l	1.04 1.03 1.06	0.0130 0.00 0.0590	1	102. 75-12 103. 75-12 101. 75-12	25 L146673-	-02 WG147424 -02 WG147424 -02 WG147424
Benzene Toluene	mg/l mg/l	0.0317 0.145	0.00	0.0292 0.1624	108. 71-12 89.5 67-12		-06 WG147586 -06 WG147586
Analyte		Matrix Spi MSD Res	ke Duplio Ref Res	ate RPD	Limit %Re	ec Ref Sam	np Batch
TOC (Total Organic Carbon)	mg/1	21.0	21.0	0.00	20 96.	5 L146651	01 WG147226
Copper Lead Zinc	mg/l mg/l mg/l	1.03 1.02 1.05	1.04 1.03 1.06	0.776 1.17 1.04	20 101 20 102 20 99.	L146673	3-02 WG147424 3-02 WG147424 3-02 WG147424
Benzene Toluene	mg/l mg/l	0.0324 0.155	0.0317 0.145	2.37 6.65	15 111 14 95.		0-06 WG147586 0-06 WG147586

Batch number /Run number / Sample number cross reference

WG147420: R189063: L146673-01 02 03 WG147424: R189081: L146673-01 02 03 WG147226: R189222: L146673-04 WG147553: R189238: L146673-01 02 03 WG147628: R189316: L146673-04 WG147586: R189339: L146673-04 WG148051: R189572: L146673-04 WG148046: R189574: L146673-01 02 03

<sup>\*</sup> See Attachment B of standard report for list of qualifiers.
\* Calculations are performed prior to rounding of reported values .



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Waste Management Mr. Olin Desonier 600 Corvette Drive, P.O. Box 90006

Bowling Green, KY 42102-9006

Quality Assurance Report Level II

L146673

March 12, 2004

### ESC Level 2 Data Package

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of regent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.